

CLAIMS:

1. A radio frequency anechoic chamber comprising:

a test stand comprising:

a first vertical support column, said first vertical support
column comprising one or more radio frequency absorbers distributed
over, at least, a longitudinally extended portion of said first vertical
support column.

2. The radio frequency anechoic chamber according to claim 1 wherein said one
or more radio frequency absorbers comprise carbon filled open cell foam.

3. The radio frequency anechoic chamber according to claim 1 wherein:

said one or more radio frequency absorbers are disposed proximate a
periphery of said first vertical support column.

4. The radio frequency anechoic chamber according to claim 3 wherein:

said one or more radio frequency absorbers are distributed over an area
that extends proximate, at least, a substantial portion of a circumference of the
first vertical support column.

5. The radio frequency anechoic chamber according to claim 4 wherein:

said one or more radio frequency absorbers comprises a layer of radio
frequency absorbing material.

6. The radio frequency anechoic chamber according to claim 5, wherein:

said layer comprises an edge that comprises a plurality of tapered protrusions, that extend substantially longitudinally with respect to said first vertical support column.

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7. The radio frequency anechoic chamber according to claim 5, wherein:

said one or more radio frequency absorbers are present in an amount of absorber per unit height that decreases as a function of height along the first vertical support column.

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8. The radio frequency anechoic chamber according to claim 4 wherein:

said first vertical support column comprises a first hollow tubular member; and

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said one or more radio frequency absorbers are disposed within said first hollow tubular member.

9. The radio frequency anechoic chamber according to claim 8 wherein:

the first hollow tubular member is circular in cross section.

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10. The radio frequency anechoic chamber according to claim 8 wherein:

the first hollow tubular member comprises a fiberglass tube.

11. The radio frequency anechoic chamber according to claim 8 wherein:

said one or more radio frequency absorbers comprise a layer of radio frequency absorbing material.

5 12. The radio frequency anechoic chamber according to claim 11, wherein:

said layer or sheet comprises an edge that comprises a plurality of tapered protrusions, that extend substantially axially with respect to first vertical support column.

10 13. The radio frequency anechoic chamber according to claim 10, wherein:

the fiberglass tube has a diameter of at least 30 centimeters, and a wall thickness of less than 1.5 millimeters.

14. The radio frequency anechoic chamber according to claim 8 wherein:

15 said test stand comprises a second vertical support column, disposed below said first vertical support column, in supporting relation to said first vertical support column, wherein said first vertical support column is characterized by a first transverse dimension, and said second vertical support column is characterized by a second transverse dimension, and said second
20 transverse dimension is less than said first transverse dimension, whereby said first vertical support column overhangs said second vertical support column

15. The radio frequency anechoic chamber according to claim 14 further comprising:

5 a swing arm adapted to support a measurement antenna, and swing through a range of polar angle about a first axis that that intersects an axis through said test stand, wherein, at large polar angles said swing arm comes near to said second vertical support column, and in such orientations, positions said measurement antenna to view an equipment under test antenna disposed above said first vertical support column, wherein a line of sight between said measurement antenna and said equipment under test antenna intersects said
10 first vertical support column.

16. The radio frequency anechoic chamber according to claim 14 further comprising:

15 a third vertical support disposed above, and supported by said first vertical support column.

17. The radio frequency anechoic chamber according to claim 16 wherein said third vertical support comprises expanded polystyrene.

20 18. The radio frequency anechoic chamber according to claim 16 further comprising:

a radio frequency test model disposed above, and supported by said third vertical support.

19. The radio frequency anechoic chamber according to claim 14 further comprising:

a first connecting member having a first rim, and a first plurality of fingers extending radially inward from said first rim, wherein said first rim is attached to a lower end of said first vertical support column; and

a second connecting member having a second rim, and a second plurality of fingers extending radially outward from said second rim, wherein said second rim is attached to an upper end of said second vertical support column, and said first and second plurality of fingers are disposed in overlapping relation.

20. A radio frequency anechoic chamber comprising:

a test stand comprising:

a first vertical support column, said first vertical support column comprising one or more radio frequency absorbers disposed proximate a periphery of said first vertical support column.

21. The radio frequency anechoic chamber according to claim 20 wherein said one or more radio frequency absorbers comprise carbon filled open cell foam.

22. A stand for supporting radio frequency equipment under test in an anechoic test chamber, the stand comprising:

a vertical support column; and

one or more radio frequency absorbers distributed over, at least, a longitudinally extended portion of said vertical support column.

23. The stand according to claim 22, wherein:

said one or more radio frequency absorbers are present in an amount of absorber per unit height that decreases as a function of height along the vertical support column.

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24. The stand according to claim 22 wherein:

said vertical support column comprises a hollow tubular member; and

said one or more radio frequency absorbers are disposed within said hollow tubular member.

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25. The stand according to claim 22 wherein:

said one or more radio frequency absorbers are disposed proximate a periphery of said vertical support column.

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26. The stand according to claim 25 wherein:

said one or more radio frequency absorbers comprises a layer of radio frequency absorbing material.